INDEX OF AUTHORS

Page numbers in italics refer to contributions, the others to the reference lists at the end of papers

Aadmodt, O. S., 175
Abelson, J., 231
Abraham, A., 451
Adams, M. W., 442
Agrawal, B. L., 232
Air, G. M., 340-341
Allard, R. W., 326
Allen, J. A., 46
Allen, Sally, 348
Ambler, R. H., 340
Antonovics, J., 32
Anxolabehere, D., *9-18*
Arnold, R. W., 46, 47, *277-298*, 298, 371
Arst, H. N., 346
Arunachalam, V., 193
Ashida, J., 33
Atanasoff, D., 118
Atkinson, F. V., 338
Avery, P., 451

Babcock, E. B., 134, 451
Bailey, N. T. J., 71
Baker, H. G., 8
Ball, N., *137-140*
Banks, G. T., 312
Barber, H. N., 256
Bardaiyar, V. N., 84
Barer, R., 421
Barnett, S. A., 338, 482
Barthelmess, I. B., 382
Bastock, M., 332
Bateson, W., 363
Beale, G. H., 84
Beardmore, J. A., 482, 483
Beatty, A. V., 134
Beckwith, J. R., 232, 422
Beddows, A. R., 326
Beerman, W., 451
Beisson-Schecroun, J., 312
Bennett, J. H., 338
Berg, J. M., 329-330
Berg, K., 150-151
Berg, P., 232
Bevan, E. A., 231, 421, 422
Bhaduri, P. N., 451
Bianchi, F., 118
Bianchi, U., 478
Blackburn, K. B., 451
Boam, T. B., 33
Bodmer, W. F., 62
Boök, J., 150-151
Bormann, F. H., 134
Borovskij, M. I., 118
Bose, P. C., 451
Boycott, A. E., 298
Boyd, Elizabeth, 342-343
Bradshaw, A. D., 33
Breese, E. L., 174, 209, 411
Brenner, S., 231
Broadhurst, P. L., 202
Bröker, W., 33
Brown, D. D., 451
Brown, S. W., 489
Bruce, A. B., 202
Bruce, H. M., 71
Bucio-Alanis, L., 174, 363, 473, 482
Buck, K. W., 312
Buckton, K. E., 345
Bullini, L., *475-478*
Bunker, H. P., 145
Burk, L. G., 118
Bush, G. L., *73-84*, 84
Buxton, E. W., 312

Cain, A. J., 47, 298, 371
Callan, H. G., 275
Cameron, R. A. D., 47
Cancrini, G., *475-478*, 478
Cannings, C., 338
Capecchi, M., 231
Carbon, J., 231
Carter, M. A., 47, 298, 371
Caskey, T., 232
Castle, W. E., 84
Catcheside, D. G., 140
Caten, C. E., *299-312*, 312
Cavalli, L. L., 193, 460
Chain, E. B., 312
Chandler, C., 8
Chandley, Ann C., *344-345*
Chapman, V., 91
Choudhuri, H. C., 451
Clark, A. J., 140
Clarke, B., 33
Clarke, B. C., 46, 47, 298, 340
Clarke, C. A., 84, 328-329
Clarke, K. U., 482
Clay, S., 256
Clegg, J. B., 340
Cochran, W. G., 47, 175, 411, 432
Cockerham, C. C., 175, 202
Collins, F., 451
Coluzzi, M., *475-478*, 478
Comstock, R. E., 202
Connor, H. E., 8
Cook, L. M., 47, 298, 371

Cooke, P., 241, 363
Cooper, J. P., 202
Corbett, M. K., 118
Cotterman, C., 338
Cox, B. S., *211-232*, 231, *413-422*, 421
Croft, J. C., 312
Crow, J. F., 482, 485
Crowe, L. K., 8
Crowley, J. G., 275
Crumpacker, D. W., 482
Cudkowicz, G., 145
Currey J. D., 47, 298, 371
Curry, J. B., 231
Curtis, G. J., 118

Daniels, K. M., 422
Darlington, C. D., 134, 275, 326, 451, 489
Davenport, C. B., 202
Davidson, G., 478
Dawood, M., 18
Dawson, C. D. R., 275
Day, A. W., 346-347
Dhadial, R. K., 343
Dickinson, A. G., 33, 347
Dickson, C. G. C., 84
Di Deco, M., 478
Dobzhansky, Th., 202, 482, 483
Doncaster, L., 363
Dressler, O., 451
Dreux, Ph, 267
Drummond, Boyce A. III, *73-84*, 84
Durham, G. B., 84
Durrant, A., 275
Duvick, D. N., 118

East, E. M., 202
Eberhart, S., 106, 174, 411
Edwards, A. W. F., 62, 338
Edwards, J. H., 267
Edwards, K. J. R., *195-202*, 202
Edwards, W. H., 84
Edwardson, J. R., 118
Ehrlich, Anne H., 330-332
Ehrlich, P. R., 330-332
Ehrman, L., 322
Einset, J., 134
Eisenhart, C., 395
Ellis, Patricia M., 345
Emara, Y. A., *195-202*
Emery, A. E. H., 147-149
Emmel, T. C., 84
Ephrussi, B., 421
Esser, K., 312
Eunus, A. M., 174

Falconer, D. S., 241
Feldman, M., 275
Fennell, D. L., 312
Ferguson-Smith, M. A., *342-343*, 345
Finlay, K. W., 174, 411, 432, 473
Fisher, R. A., 47, 62, 71, 241, 363
Fogel, S., 232
Fontdevila, A., 482
Ford, C. E., 343
Ford, E. B., 33, 84
Frankel, R., *107-119*, 118
Fredga, K., 490
Freeman, G. H., 473
Frobenius, G., 62
Fryer, A., 451
Fulker, D. W., 209

Gajewski, W., 134
Gardner, C. O., 175
Garen, A., 422
Garnjobst, L., 312
Gates, R. R., 451
Geiger, R., 371
Gerould, J. H., 84
Giannelli, F., 345, 451
Gibson, I., 348
Gibson, J. B., 322, 482
Gilbert, N., 363
Gillaspy, J. E., 482
Gillies, C. B., *486-490*, 489
Gilmore, R. A., 231, 422
Goldstein, J., 232
Goodhart, C. B., 298, 372
Goodman, H. M., 231
Gorini, L., 422
Gorodenski, S. A., 84
Gossop, G. H., 312
Graff, R. J., 145
Grafius, J. E., *177-188*, 188, *189-193*, *423-432*, 432, *433-442*, 442
Grafl, I., 134
Greenwood, J. J. D., 47
Gregory, F. G., 382
Gregory, R. P. G., 33
Gregory, W. C., 134
Griesemer, R A., 268
Griffing, B., 482
Grindle, M., 312, 422
Guerrucci-Henrion, M. A., 298, 372
Gurdon, J. B., 451

Hahn, S. K., *177-188*, 188, *189-193*, 423-*432*, 432, 442
Haldane, J. B. S., 63, 338
Hallett, J., 451
Halvorson, H. O., 232
Hamerton, J. L., 451
Harer, L., 382
Harris, H., 478
Harrison, B. J., 322, 364
Harvey, P. H., *365-372*, 372
Hawthorne, D. C., 140, 231, 232, 422
Hayes, J. D., *157-175*
Hayes, W., 118
Hayman, B. I., 33, 106, 175, 188, 202, 382, 395

Hayward, M. D., *323-326*
Hazarika, M. H., 275
Hänsel, H., 256
Hecht, M. K., 149-150
Heiser, C. B., 134
Henderson, S. A., 275
Herich, R., 451
Heuts, M. J., 482
Hill, J., 174, 363, 460
Himmelweit, F., 312
Ho, K-M., 489
Ho, T., 451
Hogben, L., 363
Holl, F. B., 346
Hollings, M., 312
Hollingshead, L., 451
Hopkins, J. W., 452
Hopkinson, D. A., 478
Hoshino, Y., 256
Hottinguer, H., 421
Howard, H. W., 152-153
Howlett, R. M., 345
Hubby, J. L., 482
Huber, I., 18
Hughes, I. M., 338
Hull, P., *140-145*, 145
Hulten, E., 134
Hurst, D. D., 232
Hussey, G. G., 382
Hyde, B. B., 8

Ichikawa, S., 490
Immer, F. R., 363
Inge-Vectomov, S. G., 232
Insley, J., 341

Jackson, J. C., *323-326*
Jacob, F., 119
Jacob, J., 452
Jacobs, P. A., 327-328
Jain, S. K., 8, 33, 119, 326
Jalan, S., 134
Jenkin, T. J., 202
Jenkins, J. A., 84
Jensen, H. W., 451
Jinks, J. L., 33, 106, 174, 188, 202, *203-209*, 209, 312, 363, 364, 382, 395, 411, 432, 460, 461, *463-474*, 473, 474, 482
John, B., 275, 490
Johnson, A. W., 134
Johnson, F. M., 482, 483
Johnson, R., 91
Johnston, A. W., 342
Johnston, J. R., 232, 422
Johnston, W. H., 175
Jolly, M. S., 84
Jones, D. A., 312
Jones, K., 134
Jones, R. M., 33, 175, 202, 460
Joshi, A. B., 175
Jourdain, F. C. R., 298

Kannenberg, L. W., 326
Kapil, R. N., 134
Kaplan, S., 231
Karten, I., 18
Kaul, D., 483
Kearsey, M. J., 209
Keeble, F., 202
Keep, Elizabeth, *443-452*, 451
Kihara, H., 451
Killick, R. J., *453-461*
Kimber, G., 91
Kimura, M., 202, 338, 482, 485
King, J. M. B., 47, 298
Kingman, J. F. C., 338
Kitzmiller, J. B., 478
Knavel, D. E., 256
Knight, G. R., 322
Köhler, G. D., 256
Kojima, K., 18, 482, 483
Komai, T., 267
Kootin-Sanwu, M., *121-135*, 135
Kopéc, A. C., 154-155
Koref-Santibañez, S., 322
Kuenen, R., 312
Kuznetsova, V. G., 451
Kwon, K. J., 312

Labine, P. A., 84
Lacadena, L. R., 119
Laibach, F., 382
Lamotte, M., 47, 298
Lamprecht, H., 256
Landy, A., 231
Langlands, A. O., 344
Langridge, J., 482
Last, F. T., 312
Law, Pamela, 327-328
Lawler, S. D., 344
Lawrence, M. J., 106, 382, 395, 474
Lee, B. T. O., 482
Lee, C. L., 451
Legel, J. C., 267
Leoncini, M. L., 135
Lerner, I. M., 411
Lesins, K., *486-490*, 490
Levan, A., 490
Levene, H., 322
Levine, L., 483
Lewis, D., 8, 451
Lewis, K. R., 490
Lewontin, R. C., 8, 482, 483
Li, C. C., 63, 267
Liang, G. H., 175
Lock, R. H., 256
Longwell, A. C., 451
Löve, A., 135
Löve, D., 135
Lush, J. L., 202
Lyon, M., 451, 452

Mackechnie, C., 232
Mackinney, G., 84

Mahalanobis, P. C., 193
Mainardi, D., 322
Mainardi, M., 322
Malogolowkin-Cohen, C. H., 322
Mandel, S. P. H., *49-63*, 63, 338
Mann, H. B., 47
Manney, T. R., 422
Manton, I., 135, 490
Margerie-Hottinguer, H., 421
Margoliash, E., 232
Marinkovic, D., 482
Marks, J. E., 312
Martin, P. G., 490
Marx, G. A., 256
Mason, G. F., 478
Mather, K., 8, 175, 193, 202, 209, 241, 322, 326, *349-364*, 363, 364, 461, 473, 482
Mathew, P. M., 451
Matsuda, K., 452
Matzinger, D. F., 175
Maugini, E., 135
McClintock, B., 452
McConkey, E. H., 452
McCreary, B. D., 329-330
McDougall, J. K., 344
McGuire, V. M., 451
McKee, D. W., 422
McKenzie, J. A., *313-322*, 483
McNeilly, T. S., 33
McWilliam, J. R., 482
Melderis, A., 135
Mendel, G., 256
Metcalfe, J. A., *259-268*, 267
Michaelis, P., 119
Miklovich, R., 482
Miller, T. E., 140
Milman, G., 232
Moffatt, B. W., 267
Mohr, J., 150-151
Moore, D. M., 135
Moran, P. A. F., 338
Morley, J. R., 106
Morris, D., 47
Morrison, J. W., 275
Mortimer, R. K., 140, 231, 232, 422
Mottier, D. M., 135
Mount, L. E., 482
Mulholland, H. P., 338
Murfet, I. C., *243-257*
Murray, J. J., 47
Murty, B. R., 193

Nachshon, I., *137-140*
Narang, S. L., 478
Narasimhanna, M. N., 84
Nass, G., 151-152
Navashin, M., 135, 451, 452
Nickell, C. D., 442
Nilsson, F., 452
Nirenberg, M., 232
Nordenskiöld, H., 135

O'Connor, M., 147
O'Donald, P., *233-241*
Ohlson, B. M., 232
Ohta, Y., 119
Oldham, C., 47
Ono, T., 451
Oppenheim, J. D., 256
Opsahl, B., 461
O'Riorden, M. L., 344
Osbone, M., 232
Owen, A. R. G., 63, 338

Packer, J. G., 134, 135
Page, B. M., 345
Paliwal, R. L., 8
Palm, J., 145
Panigrahi, G., 135
Parker, J. H., 232
Parkin, D. T., *35-47*, 47
Paroda, R. S., *157-175*, 175
Parshad, R., 478
Parsons, P. A., 62, 63, *313-322*, 322, *479-483*, 482, 483
Paton, D. M., 256
Pavlovsky, O., 482
Pazourkova, Z., 452
Pearson, P. L., 343
Pedder, I. J., 47
Pegington, C., 490
Pellow, C., 202, 256
Peloguin, S. J., 452
Perkins, Jean M., 106, 174, 175, *203-209*, 209, 382, 395, 411, 432, 461, *463-474*, 473, 474, 482
Perring, F. M., 298
Perry, R. P., 452
Person, S., 232
Petit, C., 18, 322
Peto, F. H., 135
Platt, A. P., 84
Polivonov, S., 18
Poljakova, T. F., 451
Pollock, E. G., 452
Pomper, S., 422
Pontecorvo, G., 312
Powell, J. E., 442
Powell, J. R., 483
Prakash, S., 483
Prakken, R., 490
Price, W. H., 327-328
Putterman, G. J., 232
Pyburn, W. F., 84

Race, R. R., 267
Rajhathy, T., 275
Ramanna, M. S., 490
Rao, C. R., 193
Raper, J. R., 312
Raper, K. B., 312
Rasmusson, J., 256
Ratcliffe, D., 382

Ratcliffe, S. G., 342
Raymond, N. W., *73-84*
Rees, H., *269-275*, 275, 490
Reese, G., 135
Rehder, A., 452
Rhoades, M. M., 119, 422
Rhodes, P. M., 347
Richardson, B. J., 340-341
Richmond, R. C., 483
Ridler, M. A. C., 329-330
Riley, R., 91, 140, 275
Rizet, G., 312
Robertson, A., 322
Robinson, G. M., 84
Robinson, H. F., 202
Robinson, R., *65-71*, 71, 84, 267
Robson, S. S., 241
Rockwood, E. S., 482
Rojas, B. A., 175
Roman, H., 421
Ross, M. D., 8
Rousi, A., 135
Rowlands, D. G., 256
Rowley, J. D., 345-346
Rune, O., 33
Russell, W. A., 106, 174, 411

Sackin, M. J., 341
Salceda, V. M., 482
Sand, S. A., 119
Sandberg, A. A., 490
Sanger, R., 267
Santolamazza, C., *475-478*
Sarkar, P., 91
Saunders-Singer, A. E., 421
Scazzocchio, C., 346
Schaffer, H. E., 482
Scheuer, P. A. G., 338
Schulz-Schaeffer, J., 135
Schutz, W. M., 326
Schweizer, E., 232
Scolnick, E., 232
Scott-Moncrief, R., 84
Searle, A. G., 268
Sharma, G. P., 478
Shaw, R. F., *1-8*, 8
Sheppard, P. M., 33, 47, 84, 298, 371
Sherman, F., 231, 232, 422
Short, R. V., 451
Shull, G. H., 202
Siegel, A., 452
Silson, M., 267
Simchen, G., *137-140*, 140, 312
Simmons, A. S., 322
Sinnott, E. W., 84
Sirlin, J. L., 452
Smit, P. G., 135
Smith, B. W., 452
Smith, C. A. B., 338
Smith, G. F., 329-330
Smith, J. D., 231
Smith, J. M., 442
Smith, L., 175
Snell, G. D., 145
Sokal, R., 18
Soll, L., 232
Somers, J. M., 422
Sonneborn, T. M., 422
Sorsa, V., 135
Sorsby, A., 153-154
Sparrow, A. H., 490
Spassky, B., 482
Spassky, N., 482
Speed, R. M., 342
Spencer, N., 478
Spraque, G. F., 175
Staats, J., 145
Stam, P., *483-485*
Stamberg, J., 140
Stebbins, G. L., 91, 134, 135, 326
Steere, W. C., 149-150
Stern, F. C., 135
Stevens, J. M., 175, 209
Stewart, J. W., 231, 232, 422
Stone, O. M., 312
Stone, W. S., 483
Stretton, A. O. W., 231
Stricberger, M., 18
Strigini, P. F., 232
Sturtevant, A. H., 322
Suda, Y., 135
Svihla, G., 451

Takahashi, R., 175
Tavlitzki, H., 421
Taylor, A. I., 341
Taylor, J. W., 47, 298
Taylor, O. R., 84
Tedin, H., 257
Tedin, O., 257, 363
Thoday, J. M., 33, 322, 364, 474
Thom, C., 312
Thomas, R. L., *177-188*, 188, *189-193*, *423-432*, 432, *433-442*, 442
Thomas, R. N., 135
Thompson, E. O. P., 340-341
Thompson, J. B., 188, 275
Thompson, M. W., 452
Thomson, J. A., 483
Thuesen, A., 452
Ticehurst, N. F., 298
Timmis, J. N., *269-275*
Tinney, L. M., 268
Tobari, I., 483
Todd, N. B., 268
Tompkin, R., 232
Tschermak, E. Von, 257
Tucker, B. W., 298
Tun, N. N., 452
Turner, J. R. G., 145, *259-268*, 267
Tyler, J. M., 312

Unrau, J., 91
Urquhart, C., *19-33*
Usanis, S. A., 336

Valentine, D. H., 135
Valle Ribeiro, M. A. M., 188
Van der Veen, J. H., 461
Van Valen, L., 483
Vardi, A., *85-91*, 91
Vol'kenshtein, M. V., 339

Waddington, C. H., 332, 411
Walker, S., 342
Wallace, B., 202, 322
Walters, S. M., 298
Watson, P. J., 33
Watterson, G. A., 338
Wcislo, H., 135
Weir, B. S., 338
Weisbrot, D. R., 18
Wellensiek, S. J., 257
Wells, C. P., 442
Westerman, Jane M., *93-106*, 106, *373-382*, 382, *388-395*, 395, 474
White, O. E., 257
Whitehouse, R. N. H., 188
Whitney, D. R., 47
Whitten, M. J., 33
Whittington, W. J., *397-411*
Wilkie, D., 347
Wilkins, D. A., 33
Wilkinson, G. N., 174, 432, 473
Wilkinson, J., 452
Wilkinson, J. H., 491
Williams, W., 202
Wilson, J. F., 312
Winge, Ø., 452
Witcomb, J. R., *397-411*
Witherby, H. F., 298
Wollman, E. L., 119
Wolstenholme, G. E. W., 147
Woodell, S. R. J., *121-135*, 135
Woolf, B., 268
Workman, P. L., 326
Wright, S., *332-337*, 483

Yarbrough, K. M., 18, 482
Yasuda, S., 175
Yates, F., 175, 411, 432
Yeh, B. P., 452
Young, C. S. H., *413-422*
Yuill, E., 312
Yuill, J. L., 312

Zohary, D, 91
Żuk, J., 452

INDEX OF SPECIES

Page numbers in italics refer to the main subjects of the papers

Abraxus grossulariata, *350*
Acer pseudoplatanus, 38, 277
Acris crepitans, 81
Aegilops, 85
  longissima, 85
  speltoides, *85-91*
Agrostis, 20
  canina, 131
  stolonifera, 131
  tenuis, 19, 29
Anopheles stephensi, *475-478*
Antheraea mylitta, 73
Anthoxanthum odoratum, 121
Arabidopsis thaliana, *93-106*, *373-382*, *383-395*, 479
Arianta, 35, 36, 38, 39, 42, 43, 45, 46
  arbustorum, *35-47*
Asparagus officinalis, 449
Aspergillus, *299-312*, 346
  amstelodami, 309
  fonsecaeus, 299
  glaucus, 309, 310
  heterothallicus, 304, 309, 310
  nidulans, 301, 305, 309, 310, 311, *346*, 420
  niger, 299
  terreus, 300, 301, 302, 303, 305, 306, 307 308, 309, 310, 311
  versicolor, 300, 301, 302, 303, 306, 308, 309, 310, 311
Atteva punctuella, 74

Brachypodium pinnatum, 279
Brassica napus, *397-411*
Biscutella laevigta, 133

Caltha, 130
  palustris, *121-135*
Cannabis sativa, 449
Cepaea, 35, 36, 38, 42, 45, 279, 294, 296, 297, 365
  hortensis, 35, 42, 46, 279, 281, 366
  nemoralis, 35, 38, 42, 43, 45, 46, *277-298*, *365-372*
Cerastiun, 20
Chlosyne, 73
  california, 73
  gorgone, 73
  lacinia, *73-84*
  nycteis, 73
Cirsium acaule
  oleraceum, 7
Coccinia indica, 449
Cochlicella acuta, 281, 283, 296
Colias philodice, 73
Cortaderia richardii, 1, 7
Corylus avellana, 38
Crataegus manogyna, 38
Crepis, 133, 443
Cucurbita pepo, 80
Cycas pectinata, 449

Dactylis glomerata, 121
Deschampsia flexuosa, 20
Drosophila, 30, 150, 239, 360, *453-461*, 480, 484
  ananassae, 481
  melanogaster, *9-18*, 238, 240, *313-322*, 353, 479, 480, 481
  paulistorum, 481
  pseudoobscura, 313, 479, 481

Epilobium, 38
  hirsutum, 107
Escherichia coli, 137, 229, 230, 480, 491
Eurphydryas editha, 74

Fagus sylvatica, 277
Festuca microstachys, 325
  ovina, *19-33*
  pratensis, 128
  rubra, 20
Fraxinus excelsior, 38, 277

Ginkgo biloba, 449, 450

Helianthus annuus, 74
Helicigona lapicida, 38
Helictotrichon pratense, 279
Helix aspersa, 35, 283, 296
Holcus mollis, 131

Lathyrus odoratus, 80
Lolium, 275
  multiflorum, *195-202*, 325
  perenne, 128
  temulentum, *323-326*
Lotus corniculatus, 275
Luzula compestris-multiflora, *122*

Macropus giganteus, 340
Medicago, *486-490*
  coerulea, 488
  falcata, 486, 488
  glandulosa, 488
  sativa, 486, 487, 488, 489

Neurospora crassa, 310
Nicotiana rustica, 157, 203, 204, 207, 208, 361, 453, *463-474*, 479

Orignum, 1, 6
  vulgare, 1
Oryctolagus cuniculus, 45

Paeonia, 133
Papilio demodocus, 73
Paramecium aurelia, 348, 420
Partula, 294
Penicillium, 299
Petunia, 107, 114, 117, 118
  hybrida, *107-119*
Pisum, *243-257*
  arvense, 246
  sativum, 246
Plantago, 6
  lanceolata, 1, 7
  ovata, 7
Podospora anserina, 307, 310, 311
Pogonomyrex barbatus, 481
Primula versis, 128
Prunus spinosa, 279, 370
Pseudacris triseriata, 81

Quercus, 38

Ranunculus, 130
Ribes, *443-452*
  alpestere, 444
  aureum, 444
  bracteosum, 444
  burejense, 444
  cereum, 444, 445, 448
  cynosbati, 444
  dikuscha, 444
  divaricatum, 444
  glutinosum albidum, 444, 445, 448, 449
  grossularia, 443, 444
  grossularioides, 444
  inerme, 444
  leptanthum, 444
  longeracemosum, 444, 448
  nigrum, 443, 444, 445, 447, 448, 449, 450
  niveum, 444
  orientale, 443, 444, 446, 448, 451
  oxyacanthoides, 444
  parishii, 444
  pinetorum, 444
  sanguineum, 444, 445, 447, 448
  stenocarpum, 444
  watsonianum, 444
Rubus, 38
  fruticosus, 370
  noveboracus, 131
Rumex acetosa, 450
  hastatulus, 449
  thyrsiflorus, 450

Saccharomyces cerevisiae, *137-140*, *347*, *413-422*
Salix, 443, 450
Sarothamnus scoparius, 370
Satureia hortensis, 7
Silene inflata, 19
Solanum, 443
  tuberosum, *152-153*
Spinacia oleracea, 449

Theba cantiana, 283
Tribolium castaneum, 17
Triticum boeoticum, 85, 86, 87, 90
  durum, 85, 86, 87, 88, 90
Turdus ericetorum, 35, 277
  philomelos, 370
Tussilago farfara, 38

Ulex europaeus, 279
Umbilicus rupestris, 296
Urtica dioica, 38
Ustilago violacea, *346-347*

Vicia, 133, 489

Ximenesia encelioides, 74

Zerna erecta, 279

INDEX OF SUBJECTS

Page numbers in italics refer to the main subjects of the papers

abnormality, chromosomal, 342, 343, 344
  cancer, 344
  constitutional, 344
  in malignant disease, 344
  in newborn, 342
  and reproductive wastage, 343
abortion, spontaneous, 343
additive genetic variation, 22-24, 97, 99-101, 106, 188, 207-208, 376-379, 388, 390
  rate of ear emergence in spring barley, 165-166
adenovirus type 12, interaction with human autosome, 344
ageing, 345-346
  and Y chromosome, 345-346
allele, distribution of genotypes by, *233-241*
  multiple phosphoglucomutase, *475-478*
  nuclear, progressive effect of, 418-420
allopolyploid, 132
allotetraploid, 132
Alzheimer's disease, 147
amino acid sequence, 340-341
aneuploid, 131
animals, behaviour, 338
  instinct, 338
  intelligence, 338
animals and man, behaviour, 338
area effects, *277-298*
associated lethals in larval colour polymorphism of patch butterfly, *73-84*
autoalloheptaploid, 132
autoallooctoploid, 133
autosomal, deletion syndromes, 341
  polymorphism in man, 342-343
  translocation and male infertility, 345
autotetraploid, multivalent formation, *269-275*
  pairing restriction at pachytene, *269-275*
average effects, variation in, 234-235

bacterial cytochrome, evolution, 340
barley, rate of ear emergence, additive genetic variation, 165-166
  sequential characters, *423-432*
  genotype-environment interaction, *423-432*
  stress, source and influence, *423-432*
behaviour, animals, 338
  animals and man, 338
  chromosome 9, 345
biometrical genetics, *349-364*
  nature of, 354-357
blood groups, distribution in U.K., 154-155
brood effect, 81-82
  in larval colour polymorphism of patch butterfly, *73-84*

cancer, chromosomal abnormality, 344
  cytogenetics, 344
chromosome, D group, 345
  F group, 345
  fifth, histocompatibility of, *140-145*
  9, behaviour in human male meiosis, 345
  numbers in *Caltha palustris*, 121-122
  polymorphism, human, 343
  race, 122, 125, 128-134
  X, 342
  Y and ageing, 345-346
chromosomal abnormality, 342, 343, 344
  cancer, 344
  constitutional, 344
  in malignant disease, 344
  in newborn, 342
  and reproductive wastage, 343
chromosomal rearrangement, 345
coat colour, gene frequency, *259-368*
  in domestic cats, *259-268*
  selection, *259-268*
conidial colour mutants, induction of, 303
conidial heads, heterokaryotic, 303-304
constitutional chromosomal abnormality, 344
correlation of regression coefficients of germination rates, 403-404
correlated sequential characters, *177-188*
coupling data, independent segregation, 70
cri-du-chat syndrome, 342
cytochrome, bacterial, 340
cytogenetics, cancer, 344
  human population, 327-328

cytogenic relationships in *Caltha*, *121-135*
cytology of *Caltha*, *121-135*
cytoplasmic male sterile female, 112, 116
cytoplasmic male sterility, 107, 114, 116-117
  components, 117
  factor, 116
  progeny, 112, 117

D group chromosome, 345
daunorubicin, inhibitory effect on mitochondrial synthesis, 347
De Lange syndrome, 329-330
deletion syndromes, autosomal, 341
developmental regulation, *93-106*, *373-382*, *383-395*
  additive variation, 376-379, 388, 390
  dominance, 376-378, 388, 390
  non-additive variation, 376-379, 388, 390
developmental studies of heterosis, *195-202*
  non-allelic interaction, *195-202*
diallel cross, 21-24, 94-97, 100, 373-378 383-388, 390
  in spring barley, 158, 164-166
  in wheat, 178
differential viability, *49-63*
  sexes, genetical system, *49-63*
diploid, 132
  to tetraploid introgression, *85-91*
disease, Alzheimer's, 147
  cancer, 344
  malignant, 344
domestic cats, coat colour, *259-268*
  gene frequency, *259-268*
  selection, *259-268*
dominance, 207-208
  developmental regulation, 376-378, 388, 390
  directional, 22
  lead tolerance, 22, 30
  rate of ear emergence in spring barley, 166, 168
Drosophila, genetic load, *479-483*
  heterosis, extreme environment, *479-483*
  linkage and epistatic genes, *453-461*
durum wheat, *see* wheat

effective number variance in random mating populations, *483-485*
environment, genetic variation, 406-408
  interaction with genotypes, *93-106*, *463-474*
  population, 330-332
  resources, 330-332
environmental interaction with additive, dominance and epistatic effects of genes, 208
environmental systems, genetic variability in, 401-403
enzyme, genetic and evolutionary studies, 348
epistasis, *73-84*, 166
  effects of genes, 207-208
  in larval colour polymorphism in patch butterfly, *73-84*
epistatic genes, linkage, *453-461*
equilibrium gene frequency, monotonic approach, 58
evolution, 332-337
  bacterial cytochrome, 340
  essays, 149-150
  haemoglobin, horse, 340
  mimicked protein, 341
  protein, 340
extrachromosomal, determinants, 420
  elements, *413-422*
    inheritance, *413-422*
    super-suppression system, *413-422*
    yeast, *413-422*
  factors and genetic evidence, *107-119*

fertile graft symbionts, frequency of male-sterile individuals in, 109
fertility, 342
  and deletion of X-chromosome, 342
  of hybrids, 128-129
flowering in peas, *243-257*
frequency, morph in *Cepaea*, 283-290

gene, epistatic effects, 207-208
  linkage, *453-461*
  equilibrium polymorphism, 59
  frequency, *9-18*
    coat colour in domestic cats, *259-268*
    selection, evidence of, *259-268*
    monotonic convergence, 58
    theory, 332-337
    variation, 235-238
  individual progress, 50-51
  nuclear and extrachromosomal elements, *413-422*
  unconditional advantage of, 54-55
genetic analysis, correlated sequential characters, *177-188*
  developmental phenotypes of inbred lines, *93-106*
  composition, natural population, *145*
  concept and neoplasia, 327
  control of incubation period of scrapie agent, 347

genetic (*contd.*)
control of sequential characters in oats, *433-442*
evidence, alternative maternal and Mendelian elements, *107-119*
load and heterosis, *479-483*
organisation of populations, *323-326*
recombination, control in yeast, *137-140*
studies of Syrian hamster, *65-71*
system and differential viability between sexes, *49-63*
variability, seed germination, 399-400
in different environmental systems, 401-403
genetics, biometrical, *349-363*,
clinical, 150-151
essays, 149-150
human, 147-149
and medicine, 328-329
of lead tolerance, *19-33*
Mendelian, 350-353
medical, 147-149
ophthalmic, 153-154
population, 332-337
potato, 152-153
genomic constitution in wheat, 90
genotype, behaviour and stability of response, 405-406
in two envorinmental systems, 405-406
distribution, 239-240
interaction with contrasting environments, *463-474*
variability between genotypes, *49-63* between sexes, *49-63*
genotype-environmental interaction, *93-106*, *463-474*
developmental regulation, *373-382*, *383-395*
inbred lines, *373-382*
photoperiod response in inbred lines, *373-382*
rate of ear emergence in spring barley, *157-175*
in seed germination, *397-411*
sequential characters in barley, *423-432*
in rice, *423-432*
in sping barley, *157-175*
temperature response in wild material, *383-395*
in triple test cross data, *203-209*
wild material, *383-395*
genotype variation within environment, 406-408
growth rate, *Aspergillus* spp., 306
gynodioecy, 1, 7
haemoglobin, horse, evolution of, 340
and myoglobin, 340-341
amino acid sequence in Kangaroo, 340-341
hamster, Syrian, *65-71*
haploidisation, mitotic mechanism of, 346-347
heptaploid, 130-132
isolation, 133
quadrivalent, 132
heritability, rate of ear emergence in spring barley, 168
heterokaryon
compatibility, 304-305
incompatibility, *299-312*
in imperfect spp., *299-312*
heterosis developmental studies of, *195-202*
extreme-environment and genetic load, *479-483*
and non-allelic interaction, *195-202*
heterozygotes interchange in rye, 273
hexaploid gamete, 131
histocompatibility of fifth chromosome, *140-145*
in mouse strains, *140-145*
homozygotes, lethal, 51-52
human autosome interaction with adenovirus type 12, 344
genetics, 147-149
male chromosome 9, meiosis, 345
population cytogenetics, 327-328
hybrid fertility, 128-129
imperfect spp., heterokaryon incompatibility in, *299-312*
inbred lines, 93
developmental regulation, *93-106*
genotype-environment interaction, *93-106*, *373-382*
photoperiod response, *373-382*
incompatibility, heterokaryon in imperfect spp. *299-312*
independent segregation, *65-71*
coupling date, 70
repulsion data, 70
Syrian hamster, *65-71*
inheritance, extrachromosomal elements, *413-422*
male sterility, 110-111
nucleolar suppression, *443-452*
instinct, animals and man, 338
intelligence, animals and man, 338
interaction, dominant early and dominant late gene, *243-257*

interaction (*contd.*)
of genotypes with contrasting environments, *463-474*; of genotype with micro-environment, *203-209*
specific, adenovirus type 12 and human autosome, 344
introgression, diploid to tetraploid in wheat, *85-91*
isoenzymes, 491
Italian rye-grass, 196-201
heterosis and non-allelic interaction, *195-202*
developmental studies of, *195-202*

kangaroo, amino acid sequence in, 340-341
haemoglobin, 340-341
and myoglobin, 340-341

land snail, *35-47*
selection, visual, *35-47*
larval colour polymorphism in patch butterfly, *73-84*
associated lethals in, *73-84*
brood effect in, *73-84*
epistasis in, *73-84*
lead tolerance, brood dominance, 22, 30
genetics of, *19-33*
lethal, homozygotes, 51-52
recessive, super-suppressor mutation in yeast, *211-232*
life, molecules of, 151-152, 339
linkage, and epistatic genes in *Drosophila*, *453-461*
genetic studies, independent segregation, *65-71*
Syrian hamster, *65-71*

macroenvironmental variation, micro-, 470-471
supra-, 470-471
macroscopic reactions between isolates, 307-308, 310-311
male infertility, and autosome translocation, 345
individuals, frequency in fertile graft symbionts, 109
sterility, cytoplasmic, 114
factor, 116
in F_1 progeny, 114
induced, 111-112, 115
inheritance, 110-111
maternal, 110
Mendelian, 114, 118
multidirectional transmission, 109
male infertility (*contd.*)
plant population, maintenance of, *1-8*
malignant disease, 344
chromosomal abnormality, 344
man, behaviour, 338
instinct, 338
intelligence, 338
maternal elements, *107-119*
inheritance of male sterility, 110
and Mendelian elements, *107-119*
mating frequency, unequal populations, *483-485*
propensity, variation in, *313-322*
medical genetics, 147-149
meiosis, human male chromosome 9, 345
meiotic studies in subfertile males, 344-345
Mendelian elements, *107-119*
genetics, 350-353
male sterility, 114, 118
and maternal elements, *107-119*
mouse strains, histocompatibility of fifth chromosome, *140-145*
micro-evolution, *145*
micro-macroenvironmental variation, 470-471
microscopic reactions between isolates, 307-308
mimicked protein evolution, 341
mitchondrial synthesis, inhibitory effect of daunorubicin, 347
mitotic haploidisation, mechanism of, 346-347
molecules of life, 151-152, 339
monotonic approach near equilibrium, 58
convergence, gene frequency, 58
morph frequency in *Cepaea*, 283-290
morphology of pachytene chromosome, in *Medicago*, *486-490*
at ploidy levels, *486-490*
myoglobin and haemoglobin, 340-341
amino acid sequence in kangaroo, 340-341

neoplasia and genetic concept, 327
newborn, 342
chromosomal abnormality, 342
non-additive genetic variation, 22-23, 97, 99-101, 106, 376-379, 388, 390
developmental regulation, 376-379, 388, 390
non-allelic interaction, developmental studies, *195-202*
and heterosis, *195-202*

nuclear allele, effect on extrachromosomal determinants, 420
progressive effect of, 418-420
nuclear gene and extrachromosomal elements, *413-422*
nucleolar, size in *Ribes*, 446
suppression in *Ribes*, *443-452*
inheritance, *443-452*, 445-446
sex, *443-452*
taxonomy, *443-452*

oats sequential characters, genetic control of, *433-442*
octaploid, 130-133
ophthalmic genetics, 153-154
Owen's model, *49-63*

pachytene, chromosome morphology at different ploidy levels, *486-490*
pairing restriction at, *269-275*
multivalent formation in autotetraploid, *269-275*
patch butterfly, larval colour polymorphism, *73-84*
associated lethals in, *73-84*
brood effect in, *73-84*
epistasis in, *73-84*
peas, flowering in, *243-257*
interaction of dominant early and dominant late gene, *243-257*
pentaploid, 124, 131
photoperiod response in *Arabidopsis* spp., *373-382*
in inbred lines, *373-382*
ploidy levels in *Medicago*, *486-490*
polyhaploid, 131
polymorphism, autosomal in man, 342-343
fluorescent microscopy, 343
human chromosome, 343
stable gene equilibrium, 59
polyploid, 130, 132
population, environment, resources, 330-332
genetic organisation, *323-326*
genetics of, 332-337
human cytogenetics, 327-328
natural, genetic composition of, *145*
random mating, *483-485*
unequal mating frequency in, *483-485*
variance effective number in, *483-485*
survey, 342
potato genetics, 152-153
protein, evolution of, 340
mimicked, evolution, 341

random mating populations, *483-485*
recessive lethal super-suppressor mutation in yeast, *211-232*
regression coefficients, germination rates in 2 environments, 404-405
correlation of, 403-404
reproductive wastage and chromosomal abnormalities, 343
repulsion data, independent segragation, 70
resources, environment, population, 330-332
retinoblastoma, Dq, 341
Dr, 341
rice, 428-430
sequential characters, *423-432*
genotype-environmental interaction *423-432*
stress, source and influence, *423-432*
RNA synthesis, 346
Rye, *269-275*
autotetraploid, 269-272
interchange heterozygote, 273
tetraploid, 269
trisomic, 269, 272-273
Rye-grass, Italian, 196-201
heterosis and non-allelic interaction, *195-202*
developmental studies of, *195-202*

seed germination of *Brassica*, *397-411*
genetic variability, 399-400
genotype-environment interaction in, *397-411*
selection, *9-18*, *35-47*
coat colour gene in domestic cats, *259-268*
visual, *35-47*, 290-291
in land snail, *35-47*
sequential characters, *423-432*, *433-442*
genetic control in oats, *433-442*
genotype-environment interaction in barley, *423-432*
in rice, *423-432*
stress, source and influence, *423-432*
transformation of, *189-193*
sex chromosome, deletion and fertility, 342
and nucleolar size in *Ribes*, 446
and nucleolar suppression in *Ribes*, *443-452*
sexes, differential viability, genetical system, *49-63*

spring barley, diallel cross, 158, 164-165
rate of ear emergence, genotype-environment interaction in, *157-175*
strains, *Drosophila*, *313-322*
mating propensity in, *313-322*
mouse, histocompatability of fifth chromosome, *140-145*
stress, source and influence on sequential characters, *423-432*
in barley, *423-432*
in rice, *423-432*
subfertile males, meiotic studies in, 344-345
super-suppressor mutation in yeast, *211-232*
system of yeast, extrachromosomal elements in, *413-422*
supra-macroenvironmental variation, 470-471
syndrome
cri-du-chat, 342
De Lange, 329-330
deletion, 341
Syrian hamster, *65-71*
genetic studies, *65-71*
linkage, *65-71*

taxonomy and nucleolar suppression in *Ribes*, *443-452*
temperature response, in *Arabidopsis*, *383-395*
in wild material, *383-395*
tetraploid, 125, 130-133, 269
introgression from diploid, *85-91*
translocation, autosomal and male infertility, 345
triple test cross data, genotype-environment interaction in, *203-209*
trisomy in rye, 269, 272-273

variance effective number in random mating populations, *483-485*
variation, additive, 22-24, 97, 99-101, 106, 188, 207-208, 376-379, 388, 390
in average effects, 234-235
in gene frequency, 235-238
in mating propensity in *Drosophila*, *313-322*
micro-macroenvironmental, 470-471
non-additive, 376-379, 388, 390
supra-macroenvironmental, 470-471
visual selection, *35-47*, 290-291
in land snail, *35-47*

wheat, diallel cross, 178
durum, diploid to tetraploid introgression, *85-91*
genomic constitution, 90
tetraploid introgression from diploid, *85-91*
wild material, genotype-environment interaction in, *383-395*
temperature response in, *383-395*

X-chromosome, 342
Xanthine dehydrogenases, immunological studies of, 346

Y-Chromosome, 345-346
and ageing, 345-346
Yeast, *211-232*, *413-422*
extrachromosomal elements, *413-422*
genetic recombination in, *137-140*
super-suppression system of, *413-422*